Date Entered 21-DEC-99 Date Updated 07-DEC-03

NOAA Restoration Center

Roys Dam Fishway Project

Project Description

NOAA and FishAmerica partnered with Trout Unlimited, the Marin County Department of Public Works, the Salmon Protection and Watershed Network, Performance Excavators and numerous other local parties to modify the defunct dam, which involved partial removal and alteration of the 10 foot high dam and the building of grade control weirs to facilitate unrestricted upstream migration of coho and steelhead.

Project Nickname	Roys Dam Fishway (FAF-99)		
Location	San Geronimo, Marin County, CA, 94963 SWR		
Program	Community-based Restoration	**Congressional District**	CA 6
Lat, Long Coordinates	-122.66, 38.01	**Land Ownership**	Private
Implementation Start Date	15-SEP-99	**Implementation End Date**	15-OCT-99
River Basin	San Geronimo Creek	**HUC**	18050005
Geographic Identifier	Tomales Bay	**USGS Topo Quad**	SAN GERONIMO
Project Status	Implementation Complete	**Project Type**	Restoration
Project Status Description	project completed, weirs now leak, trapping juvenile fish. More funding needed to fix leak.		
Landmark	Roy's Dam - 60 ft. upstream of San Geronimo Valley Drive bridge		
Number of Volunteers	20	**Volunteer Hours**	40
Volunteer Description			
Proposed Project?		**Project Closed?** Y	**FY Completed** 1999

Habitat Information

Type	Acres Created	Acres Re-established	Acres Rehabilitated	Acres Enhanced	Acres Protected	Stream Miles	# Plants/ Animals
stream/river channel						5	

Species Information

Commonname	Genus	Species	Population Name	NMFS Status	Species Type
Salmon, coho	*Oncorhynchus*	*kisutch*	Central California Coast	Threatened	animal
Trout, steelhead	*Oncorhynchus*	*mykiss*	?	?	animal

Partners

Trout Unlimited
California Department of Fish and Game
Performance Excavators
Marin Municipal Water District
Salmon Protection and Water Alliance
Marin Conservation League
County of Marin
Entrix/Trikey & Associates
Nute Engineering
San Fransico Bay Regional Water Quality Control Bo
San Geronimo Valley Golf Course
Save the Valley
Sierra Club, Marin Group
Tomales Bay Association

Restoration Techniques

erosion control structures
stream channel or stream pool construction
berm removal
debris removal/cleanup

Contacts

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Local

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NOAA Involvement

project management
technical assistance/expertise
source of funding

Monitoring Information

Characteristic	Type
Fish density/diversity	Structural
Finfish utilization	Functional

Additional Info

On-going monitoring by local volunteers organized by Trout Unlimited

Funding Information

Funding Mechanism	FY Awarded	NOAA Contribution	Partnership Contributio	Total Partnership Contribution
Fish America Foundation	1999	$10,500	$10,500	$21,000
TOTALS		$10,500	$10,500	$21,000

Other Non-Federal $ $96,635 **Other Federal $** $12,500 **Total Project Cost** $130,135

Funding Recipient Performance Excavators

Funding Comments

Project Abstract

Until September 1999, Roy's Dam impaired spawning migration of adult coho salmon and steelhead during winter stream flows. The returning coho adults at this location represent one of the last remaining runs within the Central California Evolutionary Significant Unit (ESU) which was listed as threatened in 1996 under the endangered species act. The Lagunitas Watershed, which encompasses San Geronimo Creek, is proposed as critical habitat for this ESU. This watershed drains into Tomales Bay, which is part of the Gulf of the Farallones National Marine Sanctuary.

NOAA and FishAmerica partnered with Trout Unlimited, the Marin County Department of Public Works, the Salmon Protection and Watershed Network, Performance Excavators and numerous other local parties to modify the defunct dam, which involved partial removal and alteration of the 10 foot high dam and the building of grade control weirs to facilitate unrestricted upstream migration of coho and steelhead. The dam was first modified in 1997 by removing two feet of the crest height. In 1998, further work was accomplished that included erosion control, streambank stabilization, and stream cleanup to remove debris. To complete the dam modification, the existing dam face and spillway was excavated, new foundation supports were placed, and fish weirs were constructed to create a gradually descending set of pools from the current elevation of the dam crest to the tailwater below the spillway. Three weirs consisting of large boulders and reinforced concrete were placed at 10 to 15 foot intervals and span the width of the stream. Total project's valued at $300 thousand when local contributions, volunteer labor and in kind goods and services are considered.

Streambed monitoring locations have been in place since 1997 to observe any degradation in the stream channel and associated substrate conditions. The monitoring will continue to determine the overall stability of the stream channel following the work at the project site. Visual observations and documentation of fish passage success and failures have been made at the project site since 1996, and will continue to determine the effectiveness of the modifications to the dam and the building of step pools. Reliance upon volunteer monitoring occurs with Trout Unlimited and the Salmon Protection and Watershed Network, and also includes annual spawning surveys and carcass inventories.